B

Thos. C. Archer Esqr.

Industrial Museum

Edinr.

W A
EDINBURGH
MR 10
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POSTAGE ONE PENNY

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1166
15/1/62

Sir,

I beg to thank you for the Copy of your interesting Handbook of Astronomy which you have been so good as to send me. I have not had time to look into it with care; but it appeared to me that you had omitted to

Sir D Brewster

Brewster

16428 Phys. 1781-1868

Mount Lodge
Portobello
Jany 9th 1862.

to give prominence to the subject of Celestial Photography as practised by Mr Bond, Mr De La Rue and Father Secchi.

The illustrations of your work are beautiful, and I have no doubt that it will be very popular. I am,

Sir,
Yours Most Truly
D Brewster

DSI
DSI

W. G. A. DIEDERICHS
AMSTERDAM

To Professor Oersted
Secretary to the Royal Society
of Copenhagen
Copenhagen

Edinburgh
10 Coates Crescent March 24th 1821

Sir,

Having had the honor of announcing you as a Foreign Member of the Royal Society of Edinburgh, I have much pleasure in transmitting to you the accompanying official notification of your election.

I have been for some time anxious to establish a correspondence between Edinburgh and Copenhagen for the purpose of exchanging the Scientific intelligence of our respective countries. Our ignorance of the Danish Language renders your Works quite inaccessible to us, and it would therefore be highly interesting to all our men of Science to have, from time to time, an account of the progress of Science & of useful knowledge in Denmark. I should also feel much indebted to you for any communications of your own for the Edinburgh Philosophical Journal, of which I am the

the general Editor, and should willingly render
similar returns for any Danish Work in which
you may be interested.

As you are no doubt pursuing with
zeal the very interesting discoveries with which
you have lately enriched the Physical Sciences
the Royal Society of Edinburgh would be
much gratified by the communication of any
of your future labours.

In a day or two I shall transmit for
your Royal Society, and to the care of the
Danish Ambassador, a Copy of Vol. IX Part I
of the Transactions of our Society.

I have the Honor to be with great Regard
Sir
Your Most Faithful &
Obd. Servt.

David Brewster

To Professor Oersted
Copenhagen

DSI

DSI

1

Dear Sir,

I enclose you a Proof of the Plate of Galvanism, In order to get all the Figures into one Plate I was obliged to send it to London to be reduced by Mr Lowry. I will thank you to send me any corrections or remarks that you may think it requires, but you need not return the Plate.

In the course of a few days the separate Copies of the article will be ready, & I shall be happy to send them ~~in or~~ to Liverpool in whatever way you shall direct me.

I am very anxious to have a good article on Heat, & I know of no person who could do it so much justice as yourself. I shall therefore wish much that you could find leisure to

undertake

Dr Bostock
Liverpool

OCT B 26 A 1815

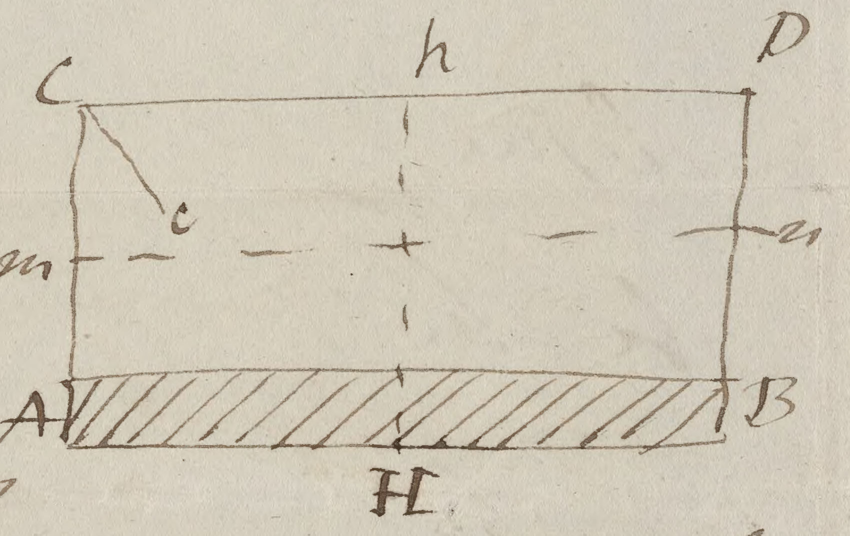
Add 1/2

Oct. 26th 1815.

undertake it. According to my ideas it should not exceed a sheet, & should contain an account of the experiments of Count Rumford, Leslie, Pictet, Prevost, Delaroche (which in spite of Delaroche I am satisfied are fundamentally erroneous) & of some curious researches of Poisson respecting the propagation of heat in solids. An Abstract of Poisson's Memoir is published in the Journal de Physique for June 1815.

In the course of a month or two I shall be able to put into your hands a Memoir of my own on the propagation of heat along plates of glass in which I have given an account of many new properties of that singular agent.

I have shewn that if a plate of glass ABCD has its lower edge AB placed upon a red hot iron H, the heat as it advances turns the axes of all the elementary crystals in the direction of its current viz Hh, & gives the glass a crystalline structure as perfect as that of any mineral. At the same instant that the crystallisation advances upwards from AB, a similar crystallisation descends from CD, tho' CD is perfectly cold; & an opposite crystallisation commences in the middle mn & advances both upwards & downwards. A crystallisation advances also from the extremities AC, & DB upon the plate. A curious change takes place at the angles C, D, B & A. A particle of glass situated at c is equally affected by the crystallisation descending from CD, & by that which advances from CA. It will therefore turn its axis in none of these directions but in the direction of the diagonal Cc.



These various effects are rendered visible by transmitting polarised light thro' the glass & then analysing it with Iceland spar. When this done the surface of the glass is covered with the most beautiful coloured fringes, having the very same properties as those produced by crystallised bodies. When the heat is uniformly diffused over the glass, all these vanish.

I have found a method however of fixing this structure permanently in glass.

If the glass when thus permanently crystallised is cut thro' by mn by a diamond each half CDnm, mnBA possess the same structure that the whole plate did before it was divided, just like a piece of a magnet detached from one of its poles. The various experiments & conclusions contained in my Memoir lay the foundation of a new Science of Polarity analogous to Electricity & Magnetism.

I am Dear Sir
Ever Most Truly Yours
D Brewster

Edinr. October 25th 1815

David Brewster

Sir,

It will give me the greatest pleasure to contribute in any way to the benevolent and national object which you have in view by offering a small some a prize for the best Essay on the Causes and remedies of the present distress.

I have no doubt that your plan will do much good in many indirect ways independent of the value of the Essays which it will produce: the discussion of so important a subject by persons

persons unconnected with political
parties, and occupying a middle
station between the suffering poor and
that class which must contribute
most effectively to their relief cannot
fail to be attended with the
best effects.

I should be very glad to act in
concert with any of my friends who
happen to be in your list of Magis-
tracies. If you wish me to name
any persons of this kind, I shall be
glad to do it. I consider Dr Chalmers
as preeminently qualified to be an

Act. DSI

Adjudicator. I have the Honour to
be Sir,

Your Most Faithful
D Brewster

St Leonards College
St Andrews Septr 15th 1842

To J. J. Whiting Esqr

P.S. Dr Peacock the Dean of Ely might
be a good arbiter.

Dear Mr Francis,

I sent you, some consider-
-able time ago a copy of my
Paper "On the Polarisation of
the Atmosphere", occupying 27
4to pages with a Folding Plate
coloured, but not necessarily so.
I wished much that it sh.d be
printed, on account of its import-
-ance, and the entire novelty of
the subject, being closely connec-
-ted with recent Meteorological
Inquiries. The folding plate might
be left out, tho' it could be put into
two wood cuts, each occupying
only half a page. –

My

My anxiety to have it printed now arises from my having received a most interesting 4to volume on the same subject by Dr Rubenson of Upsal, who gives an account of all my early researches, but omits all my recent ones, from my papers not being reprinted from the Edinr Transactions, — a work of so little circulation that any of its papers reprinted are as important as original articles. —

Dr Rubenson's very valuable work occupies about 250 pages with several large folding plates, and it places in such a light the importance of the subject, that my Paper has acquired a new value, and will ~~acquire~~ excite a new interest. I therefore anxiously desire that you will indulge me, and I am sure gratify many readers by reprinting it in two successive numbers. I am,

Dear Mr Francis,

Ever Most Truly Yrs

D Brewster

Allerly
Melrose
July 8th 1865.

P.S. My Paper on Rough surfaces which you printed requires for its being understood & valued, the reprinting of the other Paper

BREWSTER

My Dear Mr Chance,

You were so kind as to say that you would send to Profr Pepper of the Polytechnic Institution one of the small Dioptric apparatuses for Lighthouses. He is now about to deliver some very interesting Lectures in which it would be of great service to him. His Lectures are to be partly on the Illumination of Lights, for which

which I am sending him
the apparatus in my posses-
-sion.

You would oblige me,
therefore, very much, if you
could comply with his wishes.
I am sure that he will take
special care of whatever is
entrusted to him. I am,

My Dear Mr Chance,

Ever Most Truly yrs

Allerly
Melrose
Decr 11th 1865

D Brewster

DSP

Dear Mr Archer,

I thank you very much for your kind offer of apartments for Major Hay's Minerals, which I have no doubt ~~he~~ will accept with gratitude.

I am Dear Mr Archer,

Ever Most Truly Yrs

D Brewster

Duncliffe
March 16th 1861

Sir David Brewster
nat phil & sci

DSI

850/21541

30/1

Dear Sir

I return by this post a list of the articles in F. I shall supply you with Flamsteed when you require it.

A change is about to take place in the North British Review, which will cease to be a Free Church Review and become a Magazine as supported by all classes. I mention confidentially, for the purpose of asking if you would be disposed to undertake it as Printer and Publisher. It must be

Edited

Edited and published in Scot-
land.

If you think it would suit
you, further information would
be sent you. I am

Dear Sir

Ever most truly yours

D Brewster

View Bank Trinity
Edinr April 10th 1860

DSI

scope, and I will be happy to pay any expence that is incurred. –

I was requested by the Committee in London to send one of my Lenticular Stereoscopes; but as the best I have has met with an accident, you would oblige me greatly if you could place one of the best of yours along with my Apparatus, with a few Binocular Pictures. I am,

My Dear Sir,

Ever Most Truly yrs

D Brewster

St. Leonards College
St. Andrews
March 20th
1855

DSI

My Dear Sir,

Having been requested to send some of my Instruments to the Paris Exhibition, I dispatched lately a Box containing the following Articles and numbered

7 60.

1. A Solar Telescope with two Object Glasses, one a common Achromatic one, another made to correct only Spherical Aberration

There is along with it a fine Prism made by Merz, and a hollow Prism for holding Oil of Cassia & other fluids, with pieces of Apparatus for fixing them in front of the Telescope.

2. A Telescope for measuring Angles and distances, by the motion of a second object Glass. There is a divided object Glass within the brass cap.

3. A Kaleidoscope with metallic Specula.—

4. Another Kaleidoscope for obtaining rectilinear & curved patterns.

5. A Lithoscope for distinguishing precious stones, minerals and fluids.

Nos. 1 and 5 were made by Dollond.

You would oblige me much if you would open the Box, and have the Telescope, with the Prism, put up and placed in the spot assigned to it. — You would oblige me also if you could invent upon temporary stands the other Telescope and the Kaleido-

Dear Mr Jackson,

It will give me great
pleasure to dine with you
and Mr Jackson on Friday
at ½ to 7, and to meet
Mr and Mrs Hamilton
Buchanan.

Yours,

Ever most truly yrs.

D Brewster

St Leonards College

Augt. 29th 1854.

To David Thoreau

DS

Sir David Brewster

Dear Sir,

Having, in consequence of my being in Scotland, only now received the Copy of The Art Journal Illustrated Catalogue of the Exhibition which you have so kindly addressed to me, I trust you will excuse

The

the delay which has
taken place in returning
you my warmest thanks.
It is a work of inestimable
value both to the manu-
facturers and the purcha-
sers of Works of Art.

I am, Dear Sir

Ever Most Truly yours

London
D Brewster

13 Lower Seymour St
Portman Square
Oct 9th 1857

To
S. C. Hall Esq &c. &c.

Sir,

In answer to your Note of May 24th I beg to say that I have written a little volume entitled "The Martyrs of Science" in which I have given a Life of Galileo.

I have published also, in a late No of the North British Review, an Article entitled "The Martyrdom of Galileo", containing

some remarkable facts regar-
-ding his life, which have
not hitherto been known.

I am, Sir,

Yours most truly,

D Brewster

London

Athenaeum Club

Pall Mall

Mar 29th 1862

Sir David Brewster,
Philosopher

051

I read with great interest your admirable article on the Pictures of the Vernon Gallery, and always look forward with pleasure to the forth coming part. I am

Sir

Yours Most Truly

D Brewster

St Leonard's College
St Andrews

S. C. Hall Esqr Octr 25th 1850

DSI

Sir,

I am well acquainted with the Art Union Journal which was got for our University Library on my recommendation; and I shall be glad to be able to contribute any thing useful to its pages.

There are not many

Lot 111 ~~326~~

subject connected with
art on which I could write
an article sufficiently original
to induce me to put my
name to them; but there are
several topics, associated
both with the fine and useful
arts, upon which valuable
information comes into my
possession either from corres-
pondence with foreigners, or

the

the perusal of foreign
scientific Journals, that might
not be inappropriate in
a Journal like yours. I
have so many occupations
however connected with my
own studies, that I fear
it will be necessary to set
me a task in order to
divert my pen from
its accustomed channel

I

you will be in Edinr. In the mean time I am

My Dear Sir,

Ever Most Truly Yours

D Brewster

St Leonards College
St Andrews
May 13th 1844

David Milne Esqr.
&c &c &c.

Sir D. Brewster May 13/44

Brewster

My Dear Sir,

I beg to thank you for the great trouble you have been so good as to take respecting the Inverness Meteorological observations. I am very glad to find that Mr Mackenzie has been able to explain the suspicious appearances which attracted your attention.— I had always great confid-ence

ence in time, & the more so as Mr D. Gray of the Roy-al Academy University took a deep interest in the observations, & gave every countenance and assistance to Mr Mackenzie.

I found that my Paper on _visual_ _Perspective_ could not be rightly comple-ted without further informa-tion respecting the Lines of the Greek & Egyptian Temp-les, & therefore did not finish it. The other Paper, I think was read, completes the series of _three_ on the same subject. _One_ of them is pub-lished, — the _second_ is in types, and I am anxious that the _third_ sh.d be printed as soon as convenient.

I hope to have the pleasure of seeing you in the time of the General Assembly, when I presume you

270

David Brewster

My Dearest Mom

your Most affectionate Father

D Brewster

DS

Sir David Brewster

Sir,

I beg to enclose £1-
as my subscription to the
Widows Society for
the ensuing year.

I am Sir
yours most truly
D Brewster

St Leonards College
Decr 14th 1842

Dr Pitcairn 2 2 7

K/b

OSI

AUTOGRAPHE

de

Brewster

Sir David

OBSERVATIONS

1) L.a.s. Edinburgh 24.III. 1821 an Professor Oersted, Kopenhagen, gratuliert zur seiner Ernennung zum Mitgl. d. ak. Edinburgh, bittet um eine Notiz Oersted's zwecks Veröffentlichung im Edinb. Philos. Journal, dessen Herausgeber er ist und möchte einen wissenschaftlichen Verkehr zw. Dänemark und Edinb. herstellen. 2 p. 4° mit Adresse (eigh.) und Siegel. Aus Sammlung W. J. A. Diederichs, Amsterdam, dann Dr. K. Loewenfeld, Hamburg.

2) L.a.s. 2 p. 8°, Mount Lodge 9.1.1862, auf Papier ,, University of Edinburgh ; dankt für die Uebers. eines Handbuches d. Astronomie und Kritik desselben.

126 **Brewster (Sir David)** Physiker.
Lebte in Edinburg, wo er i. J. 1819 das „Edinburgh Philosophical Journal“ gründete. Hat sich auf dem Gebiete der Optik („Treatise on Optics“ (1839)) und der wiss. Geschichtsschreibung ausgezeichnet. Auch das Kaleidoskop, das nicht nur als Kinderspielzeug, sondern auch zur Herstellung von Webmustern wichtig ist, sowie ein Stereoskop hat B. erfunden. [1781—1868.]
a) E.B.m.U. Edinburgh 24.3.1821 an Oerstedt. 2S.4°. E.
Möchte wiss. Verkehr zwischen Dänemark u. Edinburg herstellen und bittet Adr. Resultate seiner Entdeckungen der „Royal Society of E.” mitzuteilen.

ISO

47 **BREWSTER, DAVID.** Natural philosopher and scientist. A. L. s. 1 p., 12mo; with envelope. Duncliffe, March 16, 1861. To Prof. Archer. CARNEGIE-60 **$3.00**

55 **BREWSTER, SIR DAVID.** Inventor of the kaleidescope. A.L.s. 1 p., 12mo. St. Leonard's College, Aug. 29, 1854. With portrait. CARNEGIE-61 **$5.00**

BREWSTER,SIR DAVID (1781-1868)Natural Philospher.

A.L.S. to Mr.Chance. FLETCHER-61

2pp.8vo.Allerly Melrose;Dec.11th.1865. £5/5/-
Asking him to lend to Professor Pepperel "one of the samll Dublin apparatuses for Lighthouses", as he was about to deliver some very interesting lectures which "are to be partly on the polarisation of light". Brewster was lending him "the apparatus in my possession".

0 **BREWSTER** (**Sir David,** F.R.S., *Princ., Univ., Edin.*) A.L.S., 1½ pp. 8vo., Edin. April 10th, 1860, £1. 10*s* SOTH-60
. . . 'A change is about to take place in the North British Review, which will cease to be a Free Church Review and become a National one supported by all classes. This I mention confidentially, for the purpose of asking if you would be disposed to undertake it as a Proprietor and Editor. It must be edited and published in Scotland.' . . .

[265] **Brewster** (Sir David, 1781-1868). Natural Philosopher.
AUTOGRAPH LETTER SIGNED TO MR. FRANCIS.
3 pages, 8vo. Melrose, 8 July, 1865. MACS-60 £3 10s.
Having received from Uppsala a copy of Dr. Rubenson's work on the same subject he is anxious to have his paper "On the Polarisation of the Atmosphere" printed immediately.

77 **CIVIL WAR.** A.L. s. of Col. Daniel Leaure, 100th Pa. Vol. 1 page, 12mo. Harrisburg, Pa. Sept. 18, 1862. **$5.00**

78 **CLARKSON, MATTHEW.** Major in the Revolution; aide to Benedict Arnold, etc.

87 **CAUSLEY, CHARLES.** English novelist. L.s. 1 p., 8vo. Launceston, 16 June 1957. **$5.00**

88 **[CHARLES II]** L.s. by Elizabeth Hamilton, lady-in-waiting to M

Dr. Bern Dibner,
The Burndy Lib
NORWALK,
CONN. U. S. A

Second fold h

Mrs. C.
der's name and address:
22, Buc

AN AIR LETTER SHOU
LOSURE; IF IT DOES
OR SENT BY O

SCIENCE

[275] **Brownlow** (John). The History and Design of the Foundling Hospital, with a memoir of the Founder.
8vo. Cloth. London: W. & H. S. Warr, 1858. **£1 5s.**

[276] **[Bruce** (Alexander).] An Inquiry concerning the Cause of the Pestilence, and Diseases in Fleets and Armies. In three parts. With an appendix containing some facts taken from History, the Works of Physicians etc., relating to the subject.